

What is claimed is:

1. A method of producing parts from powdered metal comprising the steps of:

- a) providing a metallurgic powder comprising iron, 0-0.6 weight percent carbon, 0.5-5.0 weight percent silicon, 0.5-6.0 weight percent nickel, 0.5-1.5 weight percent molybdenum, 0-0.7 weight percent manganese, and 12-20 weight percent chromium, the weight percentages calculated based on the total weight of the powder;
- b) compressing the metallurgic powder at a pressure of 35 to 65 tsi to provide a green compact; and
- c) heating the compact in an atmosphere to a temperature of 2100°F to 2400°F for 20 to 90 minutes, such that microstructure of the compact has a duplex phase or a single phase, the duplex phase having both ferritic and austenitic phases and the single phase having only a ferritic phase.

2. The method of claim 1, wherein the parts are rings used in a variable turning geometry turbocharger.

3. The method of claim 1, wherein the step of compressing the metallurgic powder produces a compact with a density of 6.0g/cc to 7.0 g/cc.

4. The method of claim 1, wherein the atmosphere in which the compact is heated is selected from the group consisting of:

- a) H<sub>2</sub>;
- b) N<sub>2</sub>/H<sub>2</sub>; and
- c) vacuum.